

Amendments to the Specification

(1) Please replace paragraph [44] with the following paragraph:

41: Tyrosine 8 and arginine 9 are substituted with Aspartic and Glycine respectively using the primer GTCATAGCCGTCTACGGT (SEQ ID NO: 1). The corresponding gene has been modified in this way:

620-CGCCACCGTATAACCGCTATGACTCCGCCG-650 (SEQ ID NO: 2)

620-CGCCACCGTAGACGGCTATGACTCCGCCG-650 (SEQ ID NO: 3)

(2) Please replace paragraph [45] with the following paragraph:

22: Phenylalanine 50 and threonine 53 are substituted with glutamic acid and isoleucine respectively using the primer TGGAGACGTCAGCGCTGT (SEQ ID NO: 4). The corresponding gene has been modified in this way:

The sequence 750-AGCGCTTCGTCTCCACCAGC-770 (SEQ ID NO: 5) has been changed into 750-AGCGCTGACGTCTCCATCAGC-770 (SEQ ID NO: 6).

(3) Please replace paragraph [46] with the following paragraph:

15: Glycine 99 has been substituted with glutamic acid using the primer CTGGCGGCTTCGTAGAAA (SEQ ID NO: 7). The corresponding gene has been so modified:

the sequence 910-TACGGCGCCGC-920 (SEQ ID NO: 8) has been changed into 910-TACGAAGCCGC-920 (SEQ ID NO: 9).

(4) Please replace paragraph [47] with the following paragraph:

17: Aspartic acid 109 has been substituted with glycine using the primer CTGGTAGGTGTCCAGCGCGCC (SEQ ID NO: 10). The corresponding gene has been so modified:

the sequence 930-GTCGACACTTA-940 (SEQ ID NO: 11) has been changed into 930-GTCGGCACTTA-940 (SEQ ID NO: 12).

(5) Please replace paragraph [48] with the following paragraph:

27: Glycine 121 has been substituted with glutamic acid using the primer GCCAGCGCTTCGGCGAGG (SEQ ID NO: 13). The corresponding gene has been so modified:

the sequence 956-GCCGGCGCGCT-966 (SEQ ID NO: 14) has been changed into 956-GCCGAAGCGCT-966 (SEQ ID NO: 15).

(6) Please replace paragraph [49] with the following paragraph:

16: Alanine in 124 position has been substituted with aspartic acid using the primer GCCATAAGTGCCGACGTATTC (SEQ ID NO: 16). The corresponding gene has been so modified:

the sequence 976-TGGCCACCTAC-984 (SEQ ID NO: 17) has been changed into 976-TGGACACCTAC-986 (SEQ ID NO: 18).

1716: contains the combined 16 and 17 mutations.

(7) Please replace paragraph [50] with the following paragraph:

28: Glutamic acid 129 has been substituted in glycine using the primer GCCAGATAACCGCTCGG (SEQ ID NO: 19). The corresponding gene has been so modified:

the sequence 990-AGCGAATATCT-1000 (SEQ ID NO: 20) has been changed into 990-AGCGGGTATCT-1000 (SEQ ID NO: 21).

(8) Please replace paragraph [51] with the following paragraph:

29: Arginine 135 has been substituted with glutamic acid using the primer GCGGAATGTCCCCGTGTG (SEQ ID NO: 22). The corresponding gene has been so modified:

the sequence 1010-GCGCATTCCGC-1020 (SEQ ID NO: 23) has been changed into 1010-GGACATTCCGC-1020 (SEQ ID NO: 24).

(9) Please replace paragraph [52] with the following paragraph:

31: Threonine 159 has been substituted with lysine using the primer TACTCCGTTTCGTGGTC (SEQ ID NO: 25). The corresponding gene has been so modified:

1070-GCATCACCGGCGAGACCACGACCACGGAGTA-1090 (SEQ ID NO: 26)
has been changed into 1070-
GCATCACCGGCGAGACCACGAAAACGGAGTA-1090 (SEQ ID NO: 27).

26: Tyrosine 111 is substituted with glycine.

(10) Please replace paragraph [53] with the following paragraph:

Furthermore, owing to a partial duplication of a primer fragment, the insertion of the Asp Thr Gly Gly amino acids occurred in position 113 using the primer CGCCACCAGTGTGACGTATTGCA (SEQ ID NO: 28). The corresponding gene has been so modified:

930-GTCGACACTTATGGCGACAAT-950 (SEQ ID NO: 29)

930-GTCGACACTGGTGGCGACACTGGTGGCGACAAT-950 (SEQ ID NO: 30).

(11) Please replace paragraph [130] with the following paragraph:

41: 8 Tyrosine and 9 arginine are substituted with Aspartic acid and Glycine respectively, using the GTCATAGCCGTCTACGGT (SEQ ID NO: 1) primer. The corresponding gene has been so modified:

620-CGCCACCGTATACCGCTATGACTCCGCCCG-650 (SEQ ID NO: 2)

620-CGCCACCGTAGACGGCTATGACTCCGCCCG-650 (SEQ ID NO: 3)

(12) Please replace paragraph [131] with the following paragraph:

22: 50 phenylalanine and 53 threonine are substituted with glutamic acid and isoleucine respectively, using the TGGAGACGTCAGCGCTGT (SEQ ID NO: 4) primer. The corresponding gene has been so modified:

The 750-AGCGCTTCGTCTCCACCAGC-770 (SEQ ID NO: 5) sequence has been changed into 750-AGCGCTGACGTCTCCATCAGC-770 (SEQ ID NO: 6).

(13) Please replace paragraph [132] with the following paragraph:

25: 99 glycine has been substituted with glutamic acid using the CTGGCGGCTTCGTAGAAA (SEQ ID NO: 7) primer. The corresponding gene has been so modified:

the 910-TACGGCGCCGC-920 (SEQ ID NO: 8) sequence has been changed into 910-TACGAAGCCGC-920 (SEQ ID NO: 9).

(14) Please replace paragraph [133] with the following paragraph:

17: 109 aspartic acid has been substituted with glycine using the CTGGTAGGTGTCCAGCGCGCC (SEQ ID NO: 10) primer. The corresponding gene has been so modified:

the 930-GTCGACACTTA-940 (SEQ ID NO: 11) sequence has been changed into 930-GTCGGCACTTA-940 (SEQ ID NO: 12).

(15) Please replace paragraph [134] with the following paragraph:

27: 121 glycine has been substituted by glutamic acid using the GCCAGCGCTTCGGCGAGG (SEQ ID NO: 13) primer. The corresponding gene has been so modified:

the 956-GCCGGCGCGCT-966 (SEQ ID NO: 14) sequence has been changed into 956-GCCGAAGCGCT-966 (SEQ ID NO: 15).

(16) Please replace paragraph [135] with the following paragraph:

16: Alanine in position 124 has been substituted with aspartic acid using the GCCATAAGTGCCGACGTATTC (SEQ ID NO: 16) primer. The corresponding gene has been so modified:

the 976-TGGCCACCTAC-984 (SEQ ID NO: 17) sequence has been changed into 976-TGGACACCTAC-986 (SEQ ID NO: 18).

1716: contains the combined 16 and 17 mutations.

(17) Please replace paragraph [136] with the following paragraph:

28: 129 glutamic acid has been substituted in glycine using the GCCAGATAACCGCTCTGG (SEQ ID NO: 19) primer. The corresponding gene has been so modified:

the 990-AGCGAATATCT-1000 (SEQ ID NO: 20) sequence has been changed into 990-AGCGGGTATCT-1000 (SEQ ID NO: 21).

(18) Please replace paragraph [137] with the following paragraph:

29: 135 arginine has been substituted with the glutamic acid using the GCGGAATGTCCCGGTGTG (SEQ ID NO: 22) primer. The corresponding gene has been so modified:

the 1010-GCGCATTCCGC-1020 (SEQ ID NO: 23) sequence has been changed into 1010-GGACATTCCGC-1020 (SEQ ID NO: 24).

(19) Please replace paragraph [138] with the following paragraph:

31: 159 threonine has been substituted with lysine using the TACTCCGTTTCGTGGTC (SEQ ID NO: 25) primer. The corresponding gene has been so modified:

1070-GCATCACCGGCGAGACCACGACCACGGAGTA-1090 (SEQ ID NO: 26) has been changed into 1070-GCATCACCGGCGAGACCACGAAAACGGAGTA-1090 (SEQ ID NO: 27).

(20) Please replace paragraph [139] with the following paragraph:

26: 111 tyrosine is substituted with glycine. Furthermore, owing to a partial duplication of a primer fragment, the insertion of the Asp Thr Gly Gly amino acids occurred in the position 113 using the CGCCACCAGTGTGACGTATTCGA (SEQ ID NO: 28) primer. The corresponding gene has been so modified:

930-GTCGACACTTATGGCGACAAT-950 (SEQ ID NO: 29)

930-GTCGACACTGGTGGCGACACTGGTGGCGACAAT-950 (SEQ ID NO: 30).

(21) Please insert the paper copy of the sequence listing (pages 1-6) after page 26 of the specification.